

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/570,011
Source: IEWP
Date Processed by STIC: 3-8-06

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IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/570,011

DATE: 03/08/2006
TIME: 13:16:18

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03072006\J570011.raw

3 <110> APPLICANT: Kureha Chemical Industry Company, Limited
 4 KAMATA, Toru
 5 MITSUSHITA, Junji
 7 <120> TITLE OF INVENTION: Antibodies to Nox1 polypeptide, method for the detection of
 cancer using
 8 Nox1 gene and method for screening substances suppressing cancer growth
 10 <130> FILE REFERENCE: 0701012WO1
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/570,011
 C--> 12 <141> CURRENT FILING DATE: 2006-03-01
 12 <160> NUMBER OF SEQ ID NOS: 27
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1734
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (71)..(1618)
 24 <223> OTHER INFORMATION: Human Nox1 polypeptide of SEQ NO:2
 27 <400> SEQUENCE: 1
 28 ggacctctcc agaatccgga ttgctgaatc ttccctgttg cctagaaggg ctccaaacca 60
 30 cctcttgcaca atg gga aac tgg gtg gtt aac cac tgg ttt tca gtt ttg 109
 31 Met Gly Asn Trp Val Val Asn His Trp Phe Ser Val Leu
 32 1 5 10
 34 ttt ctg gtt tgg tta ggg ctg aat gtt ttc ctg ttt gtg gat gcc 157
 35 Phe Leu Val Val Trp Leu Gly Leu Asn Val Phe Leu Phe Val Asp Ala
 36 15 20 25
 38 ttc ctg aaa tat gag aag gcc gac aaa tac tac tac aca aga aaa atc 205
 39 Phe Leu Lys Tyr Glu Lys Ala Asp Lys Tyr Tyr Thr Arg Lys Ile
 40 30 35 40 45
 42 ctt ggg tca aca ttg gcc tgt gcc cga gcg tct gct ctc tgc ttg aat 253
 43 Leu Gly Ser Thr Leu Ala Cys Ala Arg Ala Ser Ala Leu Cys Leu Asn
 44 50 55 60
 46 ttt aac agc acg ctg atc ctg ctt cct gtg tgt cgc aat ctg ctg tcc 301
 47 Phe Asn Ser Thr Leu Ile Leu Leu Pro Val Cys Arg Asn Leu Leu Ser
 48 65 70 75
 50 ttc ctg agg ggc acc tgc tca ttt tgc agc cgc aca ctg aga aag caa 349
 51 Phe Leu Arg Gly Thr Cys Ser Phe Cys Ser Arg Thr Leu Arg Lys Gln
 52 80 85 90
 54 ttg gat cac aac ctc acc ttc cac aag ctg gtg gcc tat atg atc tgc 397
 55 Leu Asp His Asn Leu Thr Phe His Lys Leu Val Ala Tyr Met Ile Cys
 56 95 100 105
 58 cta cat aca gct att cac atc att gca cac ctg ttt aac ttt gac tgc 445
 59 Leu His Thr Ala Ile His Ile Ala His Leu Phe Asn Phe Asp Cys

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60	110	115	120	125		
62	tat	agc aga agc cga	cag gcc aca gat	ggc tcc ctt gcc	att ctc	493
63	Tyr	Ser Arg Ser Arg	Gln Ala Thr Asp	Gly Ser Leu Ala	Ser Ile Leu	
64		130	135	140		
66	tcc	agc cta tct cat	gat gag aaa aag	ggg ggt tct	tgg cta aat ccc	541
67	Ser	Ser Leu Ser His	Asp Glu Lys Lys	Gly Gly Ser Trp	Leu Asn Pro	
68		145	150	155		
70	atc	cag tcc cga aac	acg aca gtg gag	tat gtg aca ttc	acc agc att	589
71	Ile	Gln Ser Arg Asn	Thr Thr Val	Glu Tyr Val	Thr Phe Thr Ser	Ile
72		160	165	170		
74	gct	ggt ctc act gga	gtg atc atg aca	ata gcc ttg	att ctc atg gta	637
75	Ala	Gly Leu Thr Gly	Val Ile Met Thr	Ile Ala Leu	Ile Leu Met Val	
76		175	180	185		
78	act	tca gct act gag	ttc atc cgg agg	agt tat ttt	gaa gtc ttc tgg	685
79	Thr	Ser Ala Thr Glu	Phe Ile Arg Arg	Ser Tyr Phe	Glu Val Phe Trp	
80	190	195	200	205		
82	tat	act cac cac ctt	ttt atc ttc tat	atc ctt ggc	tta ggg att cac	733
83	Tyr	Thr His His Leu	Phe Ile Phe Tyr	Ile Leu Gly	Leu Gly Ile His	
84		210	215	220		
86	ggc	att ggt gga att	gtc cgg ggt	caa aca gag	gag agc atg aat gag	781
87	Gly	Ile Gly Gly Ile	Val Arg Gly Gln	Thr Glu Glu Ser	Met Asn Glu	
88		225	230	235		
90	agt	cat cct cgc aag	tgt gca gag	tct ttt gag	atg tgg gat	829
91	Ser	His Pro Arg Lys Cys	Ala Glu Ser Phe	Glu Met Trp	Asp Asp Arg	
92		240	245	250		
94	gac	tcc cac tgt agg	cgc cct aag	ttt gaa ggg	cat ccc cct gag	877
95	Asp	Ser His Cys Arg	Arg Pro Lys Phe	Glu Gly His	Pro Pro Glu Ser	
96		255	260	265		
98	tgg	aag tgg atc ctt	gca ccg gtc	att ctt tat	atc tgt gaa agg	atc
99	Trp	Lys Trp Ile Leu	Ala Pro Val	Ile Leu Tyr	Ile Cys Glu Arg	Ile
100	270	275	280	285		
102	ctc	cggtt tac cgc	tcc cag cag	aag gtt gtg	att acc aag gtt	973
103	Leu	Arg Phe Tyr Arg	Ser Gln Gln	Lys Val Val	Ile Thr Lys Val	
104		290	295	300		
106	atg	cac cca tcc aaa	gtt ttg gaa	ttg cag atg	aac aag cgt ggc	1021
107	Met	His Pro Ser Lys	Val Leu Glu	Leu Gln Met	Asn Lys Arg Gly	Phe
108		305	310	315		
110	agc	atg gaa	gtg ggg cag	tat atc	ttt gtt aat tgc	1069
111	Ser	Met Glu Val	Gly Gln Tyr	Ile Phe Val	Asn Cys Pro Ser	Ile Ser
112		320	325	330		
114	ctc	ctg gaa tgg	cat cct ttt	act ttg acc	tct gct cca gag	1117
115	Leu	Leu Glu Trp His	Pro Phe Thr	Leu Thr Ser	Ala Pro Glu Glu	Asp
116		335	340	345		
118	tcc	tcc att cat atc	cga gca gca	ggg gac	tgg aca gaa aat	1165
119	Phe	Phe Ser Ile His	Ile Arg Ala	Ala Gly	Asp Trp Thr Glu	Asn Leu
120	350	355	360	365		
122	ata	agg gct ttc	gaa caa caa	tat tca cca	att ccc agg	att gaa gtg
123	Ile	Arg Ala Phe Glu	Gln Gln Tyr	Ser Pro Ile	Pro Arg Ile	Glu Val
124		370	375	380		

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126 gat ggt ccc ttt ggc aca gcc agt gag gat gtt ttc cag tat gaa gtg	1261
127 Asp Gly Pro Phe Gly Thr Ala Ser Glu Asp Val Phe Gln Tyr Glu Val	
128 385 390 395	
130 gct gtg ctg gtt gga gca gga att ggg gtc acc ccc ttt gct tct atc	1309
131 Ala Val Leu Val Gly Ala Gly Ile Gly Val Thr Pro Phe Ala Ser Ile	
132 400 405 410	
134 ttg aaa tcc atc tgg tac aaa ttc cag tgt gca gac cac aac ctc aaa	1357
135 Leu Lys Ser Ile Trp Tyr Lys Phe Gln Cys Ala Asp His Asn Leu Lys	
136 415 420 425	
138 aca aaa aag gtt ggt cat gca gca tta aac ttt gac aag gcc act gac	1405
139 Thr Lys Lys Val Gly His Ala Ala Leu Asn Phe Asp Lys Ala Thr Asp	
140 430 435 440 445	
142 atc gtg aca ggt ctg aaa cag aaa acc tcc ttt ggg aga cca atg tgg	1453
143 Ile Val Thr Gly Leu Lys Gln Lys Thr Ser Phe Gly Arg Pro Met Trp	
144 450 455 460	
146 gac aat gag ttt tct aca ata gct acc tcc cac ccc aag tct gta gtg	1501
147 Asp Asn Glu Phe Ser Thr Ile Ala Thr Ser His Pro Lys Ser Val Val	
148 465 470 475	
150 gga gtt ttc tta tgt ggc cct cgg act ttg gca aag agc ctg cgc aaa	1549
151 Gly Val Phe Leu Cys Gly Pro Arg Thr Leu Ala Lys Ser Leu Arg Lys	
152 480 485 490	
154 tgc tgt cac cga tat tcc agt ctg gat cct aga aag gtt caa ttc tac	1597
155 Cys Cys His Arg Tyr Ser Ser Leu Asp Pro Arg Lys Val Gln Phe Tyr	
156 495 500 505	
158 ttc aac aaa gaa aat ttt tga gttataggaa taaggacggt aatctgcatt	1648
159 Phe Asn Lys Glu Asn Phe	
160 510 515	
162 ttgtctcttt gatatccag taatttactt ggtctcgtaa ggtttgagca gtcactttag	1708
164 gataagaatg tgcctctcaa gccttg	1734
167 <210> SEQ ID NO: 2	
168 <211> LENGTH: 515	
169 <212> TYPE: PRT	
170 <213> ORGANISM: Homo sapiens	
172 <400> SEQUENCE: 2	
174 Met Gly Asn Trp Val Val Asn His Trp Phe Ser Val Leu Phe Leu Val	
175 1 5 10 15	
178 Val Trp Leu Gly Leu Asn Val Phe Leu Phe Val Asp Ala Phe Leu Lys	
179 20 25 30	
182 Tyr Glu Lys Ala Asp Lys Tyr Tyr Thr Arg Lys Ile Leu Gly Ser	
183 35 40 45	
186 Thr Leu Ala Cys Ala Arg Ala Ser Ala Leu Cys Leu Asn Phe Asn Ser	
187 50 55 60	
190 Thr Leu Ile Leu Leu Pro Val Cys Arg Asn Leu Ser Phe Leu Arg	
191 65 70 75 80	
194 Gly Thr Cys Ser Phe Cys Ser Arg Thr Leu Arg Lys Gln Leu Asp His	
195 85 90 95	
198 Asn Leu Thr Phe His Lys Leu Val Ala Tyr Met Ile Cys Leu His Thr	
199 100 105 110	
202 Ala Ile His Ile Ile Ala His Leu Phe Asn Phe Asp Cys Tyr Ser Arg	

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203	115	120	125
206	Ser Arg Gln Ala Thr Asp Gly Ser Leu Ala Ser Ile Leu Ser Ser Leu		
207	130	135	140
210	Ser His Asp Glu Lys Lys Gly Gly Ser Trp Leu Asn Pro Ile Gln Ser		
211	145	150	155
214	Arg Asn Thr Thr Val Glu Tyr Val Thr Phe Thr Ser Ile Ala Gly Leu		160
215	165	170	175
218	Thr Gly Val Ile Met Thr Ile Ala Leu Ile Leu Met Val Thr Ser Ala		
219	180	185	190
222	Thr Glu Phe Ile Arg Arg Ser Tyr Phe Glu Val Phe Trp Tyr Thr His		
223	195	200	205
226	His Leu Phe Ile Phe Tyr Ile Leu Gly Leu Gly Ile His Gly Ile Gly		
227	210	215	220
230	Gly Ile Val Arg Gly Gln Thr Glu Glu Ser Met Asn Glu Ser His Pro		
231	225	230	235
234	Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp Arg Asp Ser His		
235	245	250	255
238	Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu Ser Trp Lys Trp		
239	260	265	270
242	Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg Ile Leu Arg Phe		
243	275	280	285
246	Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val Val Met His Pro		
247	290	295	300
250	Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly Phe Ser Met Glu		
251	305	310	315
254	Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile Ser Leu Leu Glu		
255	325	330	335
258	Trp His Pro Phe Thr Leu Thr Ser Ala Pro Glu Glu Asp Phe Phe Ser		
259	340	345	350
262	Ile His Ile Arg Ala Ala Gly Asp Trp Thr Glu Asn Leu Ile Arg Ala		
263	355	360	365
266	Phe Glu Gln Gln Tyr Ser Pro Ile Pro Arg Ile Glu Val Asp Gly Pro		
267	370	375	380
270	Phe Gly Thr Ala Ser Glu Asp Val Phe Gln Tyr Glu Val Ala Val Leu		
271	385	390	395
274	400	405	410
275	415		
278	Ile Trp Tyr Lys Phe Gln Cys Ala Asp His Asn Leu Lys Thr Lys Lys		
279	420	425	430
282	435	440	445
286	Gly Leu Lys Gln Lys Thr Ser Phe Gly Arg Pro Met Trp Asp Asn Glu		
287	450	455	460
290	Phe Ser Thr Ile Ala Thr Ser His Pro Lys Ser Val Val Gly Val Phe		
291	465	470	475
294	480	485	490
295	495		
298	Arg Tyr Ser Ser Leu Asp Pro Arg Lys Val Gln Phe Tyr Phe Asn Lys		
299	500	505	510

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Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03072006\J570011.raw

302 Glu Asn Phe
 303 515
 306 <210> SEQ ID NO: 3
 307 <211> LENGTH: 2577
 308 <212> TYPE: DNA
 309 <213> ORGANISM: Rattus norvegicus
 311 <220> FEATURE:
 312 <221> NAME/KEY: CDS
 313 <222> LOCATION: (128)..(1819)
 314 <223> OTHER INFORMATION: Rat Nox1 polypeptide of SEQ NO:4
 317 <400> SEQUENCE: 3
 318 ttctgagtag gtgtgcattt gagtgtcata aagacatata tcttgagcta gacagaagtt 60
 320 cctatccctga aggtatcccat cagagaaacc agattgctcc taagaggctc cagacctcca 120
 322 tttgaca atg gga aac tgg ctg gtt aac cac tgg ctc tca gtt ttg ttt 169
 323 Met Gly Asn Trp Leu Val Asn His Trp Leu Ser Val Leu Phe
 324 1 5 10
 326 ctg gtt tct tgg ttg ggg ctg aac att ttt ctg ttt gtg tac gtc ttc 217
 327 Leu Val Ser Trp Leu Gly Leu Asn Ile Phe Leu Phe Val Tyr Val Phe
 328 15 20 25 30
 330 ctg aat tat gag aag tct gac aag tac tat tac acg aga gaa att ctc 265
 331 Leu Asn Tyr Glu Lys Ser Asp Lys Tyr Tyr Thr Arg Glu Ile Leu
 332 35 40 45
 334 gga act gcc ttg gcc ttg gcc aga gca tct gct ttg tgc ctg aat ttt 313
 335 Gly Thr Ala Leu Ala Arg Ala Ser Ala Leu Cys Leu Asn Phe
 336 50 55 60
 338 aac agc atg gtg atc ctg att cct gtg tgt cga aat ctg ctc tcc ttc 361
 339 Asn Ser Met Val Ile Leu Ile Pro Val Cys Arg Asn Leu Ser Phe
 340 65 70 75
 342 ctg agg ggc acc tgc tca ttt tgc aac cac acg ctg aga aag cca ttg 409
 343 Leu Arg Gly Thr Cys Ser Phe Cys Asn His Thr Leu Arg Lys Pro Leu
 344 80 85 90
 346 gat cac aac ctc acc ttc cat aag ctg gtg gca tat atg atc tgc ata 457
 347 Asp His Asn Leu Thr Phe His Lys Leu Val Ala Tyr Met Ile Cys Ile
 348 95 100 105 110
 350 ttc aca gct att cat atc att gca cat cta ttt aac ttt gaa cgc tac 505
 351 Phe Thr Ala Ile His Ile Ala His Leu Phe Asn Phe Glu Arg Tyr
 352 115 120 125
 354 agt aga agc caa cag gcc atg gat gga tct ctt gcc tct gtt ctc tcc 553
 355 Ser Arg Ser Gln Gln Ala Met Asp Gly Ser Leu Ala Ser Val Leu Ser
 356 130 135 140
 358 agc cta ttc cat ccc gag aaa gaa gat tct tgg cta aat ccc atc cag 601
 359 Ser Leu Phe His Pro Glu Lys Glu Asp Ser Trp Leu Asn Pro Ile Gln
 360 145 150 155
 362 tct cca aac gtg aca gtg atg tat gca gca ttt acc agt att gct ggc 649
 363 Ser Pro Asn Val Thr Val Met Tyr Ala Ala Phe Thr Ser Ile Ala Gly
 364 160 165 170
 366 ctt act gga gtg gtc gcc act gtg gct ttg gtt ctc atg gta act tca 697
 367 Leu Thr Gly Val Val Ala Thr Val Ala Leu Val Leu Met Val Thr Ser
 368 175 180 185 190

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/08/2006
PATENT APPLICATION: US/10/570,011 TIME: 13:16:19

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\03072006\J570011.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

VERIFICATION SUMMARY

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DATE: 03/08/2006

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Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\03072006\J570011.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date